

LITEON**LTD-6000
LTC-561/571
LTC-5623/5723****SERIES**

Man 6680

0.56" SEVEN-SEGMENT NUMERIC LED DISPLAYS**FEATURES**

- 0.56 INCH (14.2mm) DIGIT HEIGHT.
- CHOICE OF SIX BRIGHT COLORS-RED/BRIGHT RED/GREEN/YELLOW/ORANGE/HIGH EFFICIENCY RED.
- LOW POWER REQUIREMENT.
- EXCELLENT CHARACTERS APPEARANCE.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- I.C. COMPATIBLE.
- EASY MOUNTING ON P.C. BOARD OR SOCKET.

DESCRIPTION

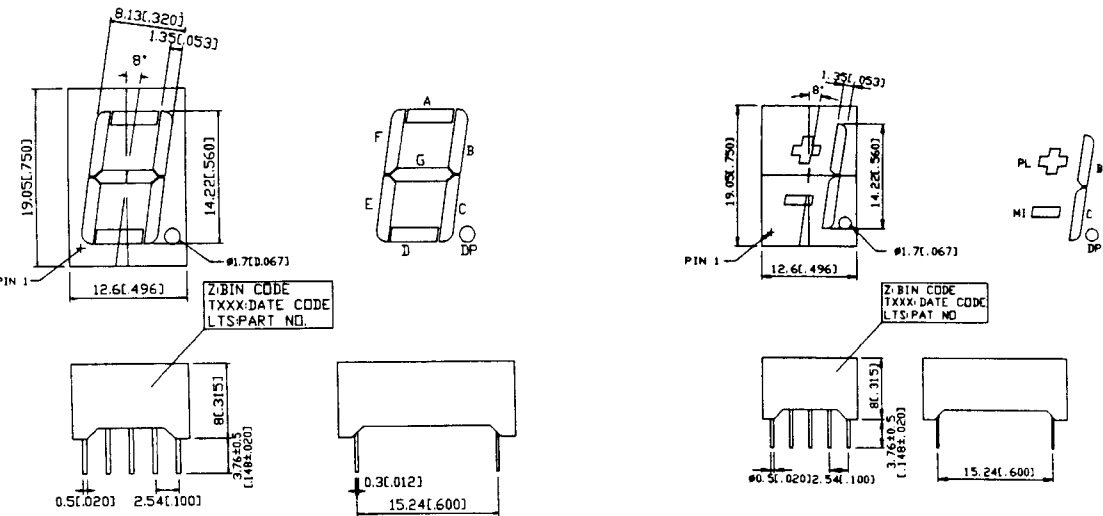
The LTS-6000, LTD-6000, LTC-561/571 LTC-5623/5723 series are 0.56 inch (14.2mm) height single, dual, triple and quadruple digit displays.

The red series devices utilize LED chips which are made from GaAsP on a GaAs substrate. The bright red and green series devices utilize LED chips which are made from GaP on a transparent GaP substrate. The yellow, orange and high efficiency red series devices utilize LED chips which are made from GaAsP on a transparent GaP substrate. Red and bright red displays have black face and red segment color. Green and yellow displays have gray face and white segment color. Orange displays have orange face and orange segment color. High efficiency red displays have red face and red segment color.

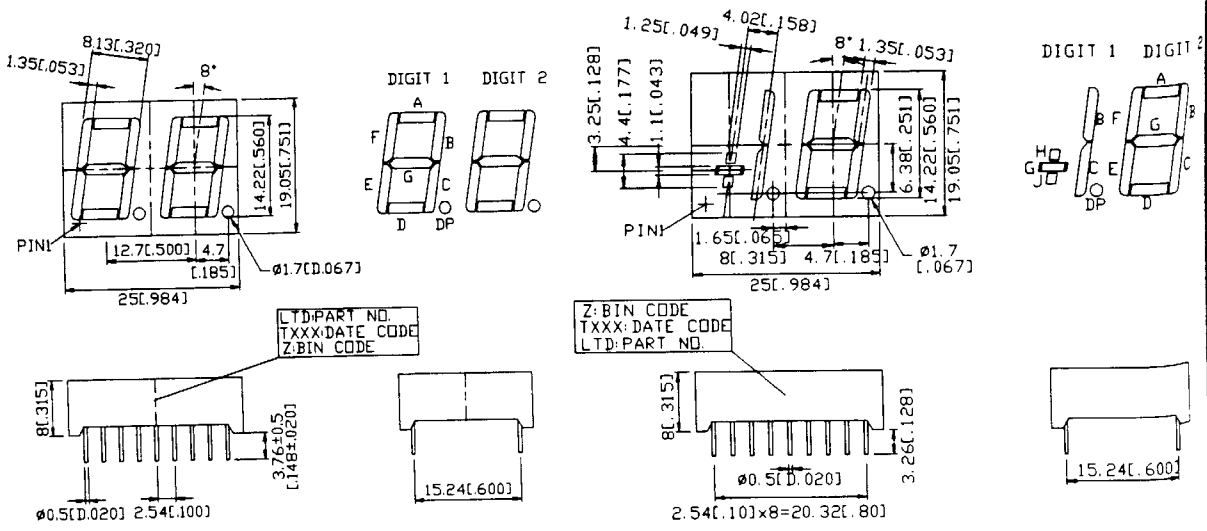
**DEVICES**

PART NO.						DESCRIPTION	PACKAGE DIMENSION	INTERNAL CIRCUIT DIAGRAM
RED	BRIGHT RED	GREEN	YELLOW	ORANGE	HI-EFF. RED			
LTS-6760R	6760P	6460G	6860Y	6660E	6960HR	Common Anode, Rt. Hand Decimal	A	A
LTS-6780R	6780P	6480G	6880Y	6680E	6980HR	Common Cathode, Rt. Hand Decimal	A	B
LTS-6775R	6775P	6475G	6875Y	6675E	6975HR	Common Anode, ± 1 Overflow	A	C
LTS-6795R	6795P	6495G	6895Y	6695E	6995HR	Common Cathode, ± 1 Overflow	A	D
LTD-6710R	6710P	6410G	6810Y	6610E	6910HR	Common Anode, Rt. Hand Decimal	B	E
LTD-6730R	6730P	6430G	6830Y	6630E	6930HR	Common Anode, ± 1.8 Overflow	B	F
LTD-6740R	6740P	6440G	6840Y	6640E	6940HR	Common Cathode, Rt. Hand Decimal	B	G
LTD-6750R	6750P	6450G	6850Y	6650E	6950HR	Common Cathode, ± 1.8 Overflow	B	H
LTC-561R	561P	561G	561Y	561E	561HR	Multiplex Common Anode, Rt. Hand Decimal	C	I
LTC-571R	571P	571G	571Y	571E	571HR	Multiplex Common Cathode, Rt. Hand Decimal	C	J
LTC-5623R	5723P-01	5623G	5623Y	5623E	5623HR	Multiplex Common Anode, Rt. Hand Decimal	D	K
LTC-5723R	5623P-01	5723G	5723Y	5723E	5723HR	Multiplex Common Cathode, Rt. Hand Decimal	D	L

PACKAGE DIMENSIONS **A. LTS-6x60/6x80/6x75/6x95**



B. LTD-6x10/6x30/6x40/6x50



NOTES : All dimensions are in millimeters (inchs.) tolerance are :
 ±0.25mm(0.010) unless otherwise noted.

PIN CONNECTION

PIN	CONNECTION			
NO.	A. LTS-6x60	B. LTS-6x80	C. LTS-6x75	D. LTS-6x95
1	Cathode E	Anode E	Cathode Minus Sign	Anode Minus Sign
2	Cathode D	Anode D	Anode Pl., Mi. *2	Cathode Pl., Mi. *2
3	Common Anode *1	Common Cathode *1	Cathode C	Anode C
4	Cathode C	Anode C	Anode B.C.Dp *3	Cathode B.C.Dp *3
5	Cathode D.P.	Anode D.P.	Cathode Cp	Anode Dp
6	Cathode B	Anode B	Cathode B	Anode B
7	Cathode A	Anode A	Anode B.C.Dp *3	Cathode B.C.Dp *3
8	Common Anode *1	Common Cathode *1	Anode Pl., Mi. *2	Cathode Pl., Mi. *2
9	Cathode F	Anode F	Cathode Plus Sign	Anode Plus Sign
10	Cathode G	Anode G	No Connection	No Connection

NOTES: 1. Pin 3 & 8 are internally connected.
 2. Pin 2 & 8 are internally connected.
 3. Pin 4 & 7 are internally connected.

PIN NO.	CONNECTION			
	A. LTD-6x10	B. LTD-6x30	C. LTD-6x40	D. LTD-6x50
1	Cathode E (Digit 1)	Cathode G (Digit 1)	Anode E (Digit 1)	Anode G (Digit 1)
2	Cathode D (Digit 1)	Cathode J. H (Digit 1)	Anode D (Digit 1)	Anode J. H (Digit 1)
3	Cathode C (Digit 1)	Cathode C (Digit 1)	Anode C (Digit 1)	Anode C (Digit 1)
4	Cathode D.P. (Digit 1)	Cathode D.P. (Digit 1)	Anode D.P. (Digit 1)	Anode D.P. (Digit 1)
5	Cathode E (Digit 2)	Cathode E (Digit 2)	Anode E (Digit 2)	Anode E (Digit 2)
6	Cathode D (Digit 2)	Cathode D (Digit 2)	Anode D (Digit 2)	Anode D (Digit 2)
7	Cathode G (Digit 2)	Cathode G (Digit 2)	Anode G (Digit 2)	Anode G (Digit 2)
8	Cathode C (Digit 2)	Cathode C (Digit 2)	Anode C (Digit 2)	Anode C (Digit 2)
9	Cathode D.P. (Digit 2)	Cathode D.P. (Digit 2)	Anode D.P. (Digit 2)	Anode D.P. (Digit 2)
10	Cathode B (Digit 2)	Cathode B (Digit 2)	Anode B (Digit 2)	Anode B (Digit 2)
11	Cathode A (Digit 2)	Cathode A (Digit 2)	Anode A (Digit 2)	Anode A (Digit 2)
12	Cathode F (Digit 2)	Cathode F (Digit 2)	Anode F (Digit 2)	Anode F (Digit 2)
13	Common Anode (Digit 2)	Common Anode (Digit 2)	Common Cathode (Digit 2)	Common Cathode (Digit 2)
14	Common Anode (Digit 1)	Common Anode (Digit 1)	Common Cathode (Digit 1)	Common Cathode (Digit 1)
15	Cathode B (Digit 1)	Cathode B (Digit 1)	Anode B (Digit 1)	Anode B (Digit 1)
16	Cathode A (Digit 1)	No Connection	Anode A (Digit 1)	No Connection
17	Cathode G (Digit 1)	No Connection	Anode G (Digit 1)	No Connection
18	Cathode F (Digit 1)	No Connection	Anode F (Digit 1)	No Connection

LTS-6600E/LTD-6600E/LTC-561E/571E/5623E/5723E

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_v	800	2400		μ cd	$I_f = 10\text{mA}$
Peak Emission Wavelength	λ_p		630		nm	$I_f = 20\text{mA}$
Spectral Line Half-Width	$\Delta \lambda$		40		nm	$I_f = 20\text{mA}$
Dominant Wavelength	λ_d		621		nm	$I_f = 20\text{mA}$
Forward Voltage, any Segment or D.P.	V_F		2.0	2.8	V	$I_f = 20\text{mA}$
Reverse Current, any Segment or D.P.	I_R			100	μ A	$V_R = 5\text{V}$
Luminous Intensity Matching Ratio	$I_v\text{-m}$			2:1		$I_f = 10\text{mA}$

LTS-6900HR/LTD-6900HR/LTC-561HR/571HR/5623HR/5723HR

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_v	800	2400		μ cd	$I_f = 10\text{mA}$
Peak Emission Wavelength	λ_p		635		nm	$I_f = 20\text{mA}$
Spectral Line Half-Width	$\Delta \lambda$		40		nm	$I_f = 20\text{mA}$
Dominant Wavelength	λ_d		621		nm	$I_f = 20\text{mA}$
Forward Voltage, any Segment or D.P.	V_F		2.1	2.8	V	$I_f = 20\text{mA}$
Reverse Current, any Segment or D.P.	I_R			100	μ A	$V_R = 5\text{V}$
Luminous Intensity Matching Ratio	$I_v\text{-m}$			2:1		$I_f = 10\text{mA}$

QUALITY TECHNOLOGIES (GENERAL INSTRUMENT)

Q.T.	CSC	Q.T.	CSC	Q.T.	CSC
FND 310	CSS-318E-32	MAN 3880A	CSS-313Y-11	MAN 6640	CSD-525E-63
FND 317	CSS-319E-32	MAN 3910A	CSS-312E-32	MAN 6650	CSD-527E-63
FND 318	CSS-317E-32	MAN 3920A	CSS-312E-32	MAN 6660	CSS-514E-63
FND 350	CSS-318R-32	MAN 3980A	CSS-313E-32	MAN 6680	CSS-515E-63
FND 357	CSS-319R-32	MAN 4405A	CSS-410G-11	MAN 6710	CSD-524R-22
FND 358	CSS-317R-32	MAN 4410A	CSS-414G-11	MAN 6730	CSD-526R-22
FND 360	CSS-318H-32	MAN 4540A	CSS-415G-11	MAN 6740	CSD-525R-22
FND 367	CSS-319H-32	MAN 4605A	CSS-410E-63	MAN 6750	CSD-527R-22
FND 368	CSS-317H-32	MAN 4610A	CSS-414E-63	MAN 6760	CSS-514R-22
GMA 2175	CSM-57211E-11	MAN 4640A	CSS-415E-63	MAN 6780	CSS-515R-22
GMA 2185	CSM-58231E-11	MAN 4705A	CSS-410R-23	MAN 6810	CSD-524Y-11
GMA 2475	CSM-57211G-11	MAN 4710A	CSS-414R-23	MAN 6830	CSD-526Y-11
GMA 2485	CSM-58231G-11	MAN 4740A	CSS-415R-23	MAN 6840	CSD-525Y-11
GMA 2975	CSM-57211E-32	MAN 4805A	CSS-410Y-11	MAN 6850	CSD-527Y-11
GMA 2985	CSM-58231E-32	MAN 4810A	CSS-414Y-11	MAN 6860	CSS-514Y-11
GMC 2175	CSM-57221E-11	MAN 4840A	CSS-415Y-11	MAN 6880	CSS-515Y-11
GMC 2185	CSM-58241E-11	MAN 4905A	CSS-410E-32	MAN 6910	CSD-524E-32
GMC 2475	CSM-57221G-11	MAN 4910	CSS-414E-32	MAN 6930	CSD-526E-32
GMC 2485	CSM-58241G-11	MAN 4940	CSS-415E-32	MAN 6940	CSD-525E-32
GMC 2975	CSM-57221E-32	MAN 6410	CSD-524G-11	MAN 6950	CSD-527E-32
GMC 2985	CSM-58241E-32	MAN 6430	CSD-526G-11	MAN 6960	CSS-514E-32
MAN 3420A	CSS-312G-11	MAN 6440	CSD-525G-11	MAN 6980	CSS-515E-32
MAN 3480A	CSS-313G-11	MAN 6450	CSD-527G-11	MAN 71A	CSS-312R-22
MAN 3610A	CSS-312E-63	MAN 6460	CSS-514G-11	MAN 72A	CSS-312R-22
MAN 3680A	CSS-313E-63	MAN 6480	CSS-515G-11	MAN 78A	CSS-313R-22
MAN 3810A	CSS-312Y-11	MAN 6610	CSD-524E-63		
MAN 3820A	CSS-312Y-11	MAN 6630	CSD-526E-63		

SIEMENS (LITRONIX)

SIEMENS	CSC	SIEMENS	CSC	SIEMENS	CSC
DL 7656O	CSS-401E-32	DL-7671G	CSS-416G-11	DL-7760R	CSS-417R-22
DL-7676G	CSS-401G-11	DL-7750R	CSS-416R-22	DL-7663Y	CSS-417Y-11
DL 7756R	CSS-401R-22	DL-7751R	CSS-416R-22	DL-3900	CSS-815E-11
DL-7666Y	CSS-401Y-11	DL-7660Y	CSS-416Y-11	DL-3901	CSS-815E-11
DL-7650O	CSS-416E-32	DL-7661Y	CSS-416Y-11	DL-3903	CSS-816E-11
DL-7651O	CSS-416E-32	DL-7653O	CSS-417E-32	DL-3905	CSS-816E-11
DL-7670G	CSS-416G-11	DL-7673G	CSS-417G-11		

LITEON	CSC	LITEON	CSC	LITEON	CSC
LTP 4057AY	CSM-57432Y-11	LTS 3401LP	CSS-816H-11	LTS 4940AHR	CSS 415E-32
LTP 4157AE	CSM 57442E-11	LTS 3401LY	CSS-816Y-11	LTS 546AE	CSS 516E-11
LTP 4157AG	CSM-57442G-11	LTS-3403LE	CSS 815E-11	LTS 546AG	CSS-516G-15
LTP 4157AHR	CSM-57442E-32	LTS 3403LG	CSS-815G-11	LTS 546AHR	CSS-516E-32
LTP 4157AY	CSM-57442Y-11	LTS 3403LP	CSS-815H-11	LTS 546AP	CSS 516H-11
LTP 4257AA	CSM-57472EG-11	LTS 3403LY	CSS 815Y-11	LTS 546AR	CSS 516R-11
LTP 4357AA	CSM-57482EG-11	LTS-360E	CSS-318E-11	LTS 546AY	CSS-516Y-11
LTP 747E	CSM-57071E-11	LTS 360G	CSS-318G-11	LTS 547AE	CSS 517E-11
LTP 747G	CSM-57071G-11	LTS-360HR	CSS-318E-32	LTS 547AG	CSS 517G-15
LTP 747Y	CSM-57071Y-11	LTS-360P	CSS 318H-32	LTS 547AHR	CSS 517E-32
LTP 757E	CSM-57081E-11	LTS-360R	CSS-318R-32	LTS 547AP	CSS-517H-11
LTP 757G	CSM-57081G-11	LTS 367E	CSS-319E-11	LTS 547AR	CSS-517R-11
LTP 757Y	CSM-57081Y-11	LTS 367G	CSS-319G-11	LTS 547AY	CSS 517Y-11
LTS 1720E	CSS-1012E-11	LTS 367HR	CSS-319E-32	LTS 6460G	CSS 514G-11
LTS 1720G	CSS-1012G-11	LTS 367P	CSS-319H-32	LTS 6480G	CSS-515G-11
LTS 1720P	CSS-1012H-11	LTS 367R	CSS-319R-32	LTS 6660E	CSS-514E-63
LTS 1720Y	CSS-1012Y-11	LTS 368E	CSS-317E-11	LTS 6680E	CSS 515E-63
LTS 1723E	CSS-1013E-11	LTS 368G	CSS-317G-11	LTS 6760P	CSS-514H-22
LTS 1723G	CSS-1013G-11	LTS 368HR	CSS 317E-32	LTS 6760R	CSS 514R-22
LTS 1723P	CSS-1013H-11	LTS 368P	CSS-317H-32	LTS 6780P	CSS 515H-22
LTS 1723Y	CSS-1013Y-11	LTS 368R	CSS-317R-32	LTS 6780R	CSS 515R-22
LTS 311AE	CSS-311E-63	LTS-3731E	CSS-416E-11	LTS 6860Y	CSS-514Y-11
LTS 311AG	CSS-311G-11	LTS 3733E	CSS-417E-11	LTS 6880Y	CSS 515Y-11
LTS 311AHR	CSS 311E-32	LTS-3736E	CSS-401E-11	LTS 6960HR	CSS 514E-32
LTS-311AP	CSS 311H-22	LTS 4505AG	CSS-410G-11	LTS 6980HR	CSS 515E-32
LTS 311AR	CSS-311R-22	LTS 4510AG	CSS-414G-11	LTS 7651HR	CSS 416E-32
LTS 311AY	CSS 311Y-11	LTS-4540AG	CSS-415G-11	LTS 7653HR	CSS 417E-32
LTS-312AE	CSS-312E-63	LTS-4605AE	CSS-410E-63	LTS 7656HR	CSS 401E-32
LTS 312AG	CSS-312G-11	LTS 4610AE	CSS-414E-63	LTS 7661YN	CSS-416Y-11
LTS 312AHR	CSS-312E-32	LTS 4640AE	CSS 415E-63	LTS 7663YN	CSS-417Y-11
LTS 312AP	CSS-312H-22	LTS 4705AP	CSS-410H-23	LTS 7666YN	CSS-401Y-11
LTS 312AR	CSS-312R-22	LTS 4705AR	CSS-410R-23	LTS 7671GN	CSS 416G-11
LTS 312AY	CSS-312Y-11	LTS 4710AP	CSS-414H-23	LTS-7673GN	CSS-417G-11
LTS 313AE	CSS-313E-63	LTS 4710AR	CSS-414R-23	LTS 7676GN	CSS 401G-11
LTS 313AG	CSS 313G-11	LTS-4740AP	CSS-415H-23	LTS 7751P	CSS-416H-22
LTS 313AHR	CSS-313E-32	LTS 4740AR	CSS-415R-23	LTS 7751R	CSS 416R-22
LTS-313AP	CSS-313H-22	LTS 4805AY	CSS-410Y-11	LTS 7756P	CSS-401H-22
LTS 313AR	CSS-313R-22	LTS-4810AY	CSS-414Y-11	LTS-7756R	CSS 401R-22
LTS 313AY	CSS-313Y-11	LTS 4840AY	CSS-415Y-11	LTS-7760P	CSS-417H-22
LTS 3401LE	CSS-816E-11	LTS-4905AHR	CSS-410E-32	LTS 7760R	CSS-417R-22
LTS-3401LG	CSS-816G-11	LTS-4910AHR	CSS-414E-32		